



# Josef Henkenjohann GmbH

Your partner in drive  
technology since 1956



**Black Tiger**  
High-performance Chain



**High Grand Material**  
**Advanced Heat Treatment**  
**Seamless Bushing**  
**Quadruple Riveting**  
**ETK High-Performance Lubricant**



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## Standort

Kapellenweg 41, 33415 Verl



## Black Tiger High-Performance Roller Chain Engineered for Extreme Reliability

The **Black Tiger Series** is Henkenjohann's flagship high-performance roller chain platform for demanding industrial applications where load capacity, wear life and operational stability are critical.

By integrating four advanced engineering technologies into one system, **Black Tiger** delivers exceptional durability, safety and long-term performance.

### Core Technologies

#### S – Seamless Bushings

Seamless steel bushings eliminate weld seams, ensuring uniform load distribution, superior fatigue strength and extended wear life.

#### Q – Quadruple Riveting

Four-point riveted pins provide maximum plate retention, excellent shock-load resistance and outstanding mechanical stability.

#### E – ETK High-Performance Lubrication

A specially formulated lubricant creates a durable protective film in the pin-bushing interface, reducing friction and wear while extending maintenance intervals.

#### H – Heat-Treated High-Quality Steel

Premium alloy steel combined with advanced heat treatment delivers high tensile strength, superior fatigue life and reliable performance under extreme conditions.

### Why BlackTiger

- Higher load capacity and longer service life
- Exceptional resistance to shock and vibration
- Reduced wear and chain elongation
- Stable operation in harsh industrial environments

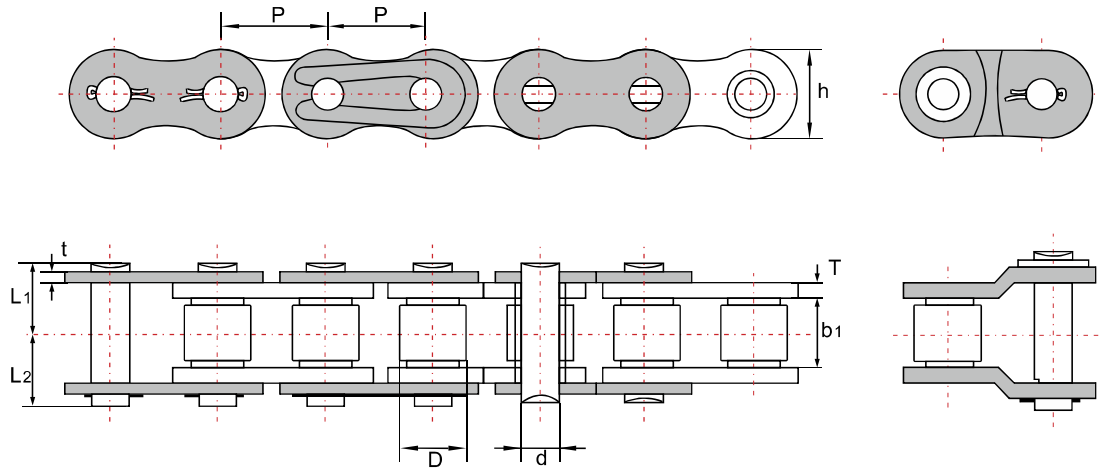
**Black Tiger** is designed to outperform conventional heavy-duty roller chains and to meet the expectations of high-end industrial markets. Built for the Harshest Industrial Demands

Performance Area	Standard Heavy Duty Chain	Black Tiger High-Performance Chain
<b>Bushing Design</b>	Seam bushing	Seamless bushing – no weld seam, uniform stress distribution
<b>Wear Resistance</b>	Moderate	Significantly higher, reduced internal wear
<b>Pin Retention</b>	Standard riveting	Quadruple riveting for superior plate holding and shock resistance
<b>Shock Load Capacity</b>	Limited	Excellent, designed for vibration and impact loads
<b>Lubrication System</b>	Standard oil or grease	ETK high-performance boundary lubrication system
<b>Lubrication Life</b>	Requires frequent re-lubrication	Extended lubrication interval, lower maintenance
<b>Material Quality</b>	Standard	Premium alloy steel
<b>Heat Treatment</b>	Basic	Advanced heat treatment for all critical components
<b>Fatigue Strength</b>	Standard	High fatigue strength for long service life
<b>Elongation Rate</b>	Faster elongation over time	Slower elongation, better pitch stability
<b>Service Life</b>	Limited in heavy-duty use	Long-term reliability in continuous and harsh operation



Reliability Proven by Testing Multiple spot checks have shown that the average breaking load reaches 115–130% of the ISO standard. The high-frequency fatigue resistance exceeds 200% of the ISO standard. These outstanding performance values offer maximum safety and reliability in heavy-duty applications, high cycling frequencies, or extreme operating conditions—while also reducing maintenance intervals and effectively lowering operating costs.

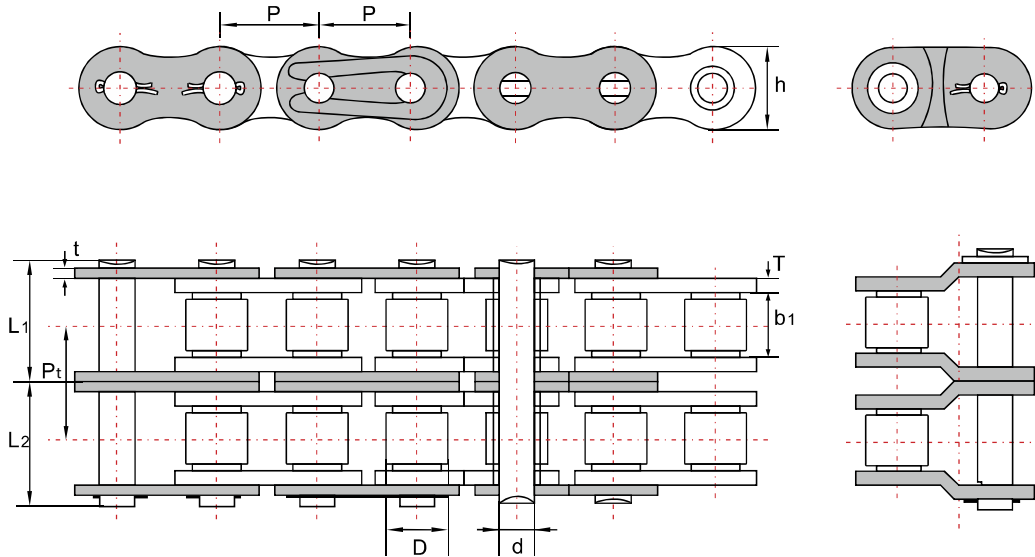
**Black Tiger Roller Chain ISO 606 (DIN 8187)**



Chain No.		Pitch	Width between inner plates	Roller diameter	Pin			Plate		Ultimate tensile strength	Average tensile strength	Weight per meter
DIN/ISO	Henkenjohann article no	P mm	b1(min) mm	D(max) mm	d mm	L1 mm	L2 mm	h mm	t/T mm	Q(min) kN	Q <sub>0</sub> kN	q kg/m
08B-1	BT 01.124-000	12.70	7.75	8.51	4.45	8.5	9.9	11.8	1.65	17.8	20.5	0.75
10B-1	BT 01.150-000	15.875	9.65	10.16	5.08	9.6	10.9	14.6	1.65	22.2	27.5	0.95
12B-1	BT 01.190-000	19.05	11.68	12.07	5.72	11	12.4	16	1.8	28.9	32.5	1.22
16B-1	BT 01.250-000	25.40	17.02	15.88	8.28	17.65	19.05	21	3.2/4	60	71	2.8
20B-1	BT 01.310-000	31.75	19.56	19.05	10.19	20.2	23.8	26	3.6/4.5	95	107	3.9
24B-1	BT 01.380-000	38.10	25.40	25.40	14.63	26.65	31.05	33	5/6	160	178	7.13
28B-1	BT 01.450-000	44.45	30.99	27.94	15.9	32.55	36.45	36.7	6.2/7.5	200	225	9.36
32B-1	BT 01.510-000	50.80	30.99	29.21	17.81	32.8	37.2	41.9	6.2/7	250	278	9.94
40B-1	BT 01.635-000	63.50	38.10	39.37	22.89	39.25	45.05	52.96	8/8.5	355	394	16.35
48B-1	BT 01.760-000	76.20	45.72	48.26	29.24	49.3	58.8	63.88	9.5/11.8	560	621	24.52

Connecting Type: The series smaller than 16B(including 16B) is preferred for spring clip type;  
The series larger than 20B(including 20B) is preferred for cottered type.

**Black Tiger Roller Chain ISO 606 (DIN 8187)**

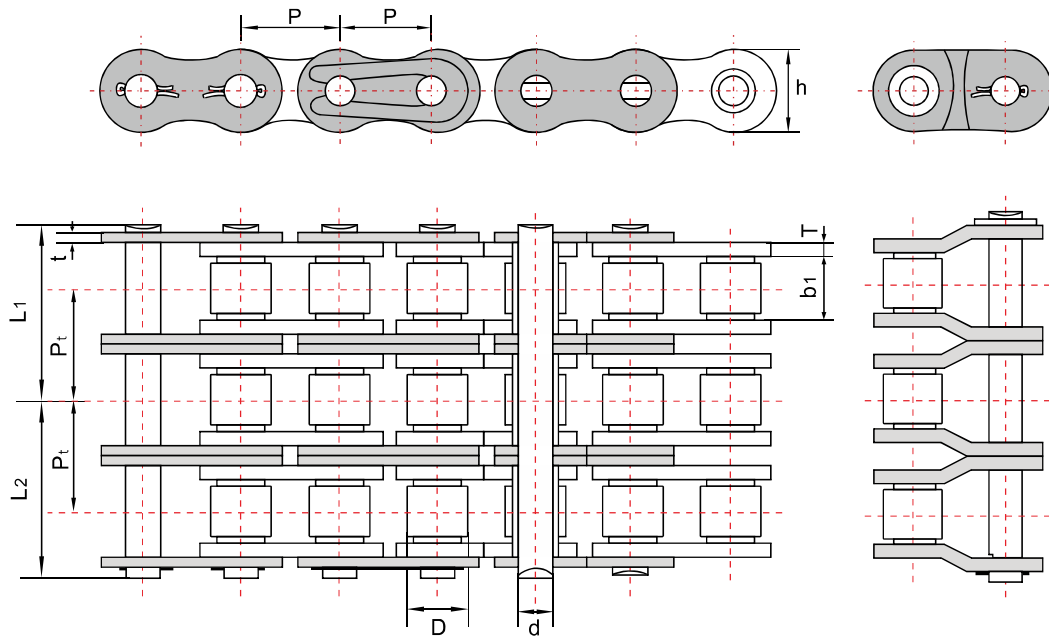


Chain No.		Pitch	Width between inner plates	Roller diameter	Pin			Plate		Transverse pitch	Ultimate tensile strength	Average tensile strength	Weight per meter
DIN/ISO	Henkenjohann article no	P mm	b1(min) mm	D(max) mm	d mm	L1 mm	L2 mm	h mm	t/T mm	Pt mm	Q(min) kN	Qo kN	q kg/m
08B-2	BT 02.124-000	12.7	7.75	8.51	4.45	15.5	16.9	11.8	1.65	13.92	31.1	37	1.47
10B-2	BT 02.150-000	15.875	9.65	10.16	5.08	17.9	19.3	14.6	1.65	16.59	44.5	53.8	1.88
12B-2	BT 02.190-000	19.05	11.68	12.07	5.72	20.75	22.15	16	1.8	19.46	57.8	65.3	2.42
16B-2	BT 02.250-000	25.4	17.02	15.88	8.28	33.6	35	21	3.2/4	31.88	106	128.3	5.54
20B-2	BT 02.310-000	31.75	19.56	19.05	10.19	38.45	42.05	26	3.6/4.5	36.45	170	210	7.71
24B-2	BT 02.380-000	38.1	25.4	25.4	14.63	50.85	55.25	33	5/6	48.36	280	313.6	14.09
28B-2	BT 02.450-000	44.45	30.99	27.94	15.9	62.35	66.15	36.7	6.2/7.5	59.56	360	403.2	18.49
32B-2	BT 02.510-000	50.8	30.99	29.21	17.81	62.05	66.45	41.9	6.2/7	58.55	450	504	19.59
40B-2	BT 02.635-000	63.50	38.10	39.37	22.89	75.4	81.2	52.96	8/8.5	72.29	630	711.9	32.00
48B-2	BT 02.760-000	76.20	45.72	48.26	29.24	95.0	104.4	63.88	9.5/11.8	91.21	1000	1130	50.00

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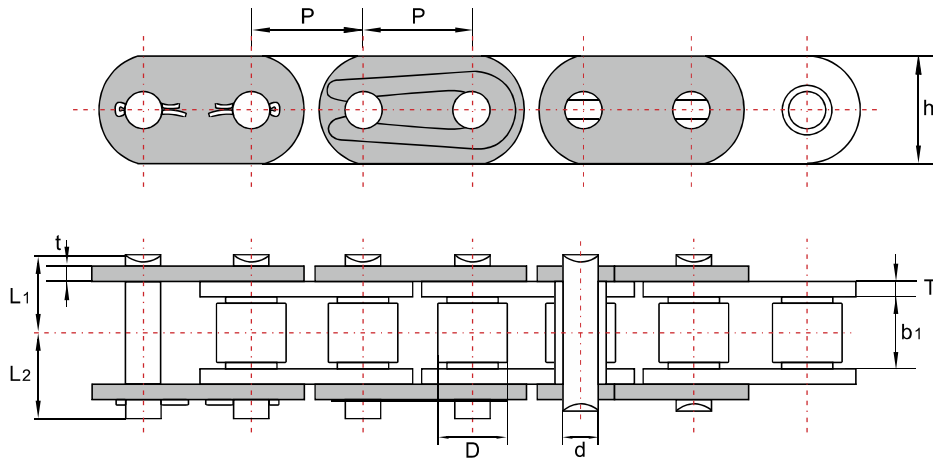
**Black Tiger Roller Chain ISO 606 (DIN 8187)**



Chain No.		Pitch	Width between inner plates	Roller diameter	Pin			Plate		Transverse pitch	Ultimate tensile strength	Average tensile strength	Weight per meter
DIN/ISO	Henkenjohann article no	P mm	b1(min) mm	D(max) mm	d mm	L1 mm	L2 mm	h mm	t/T mm	Pt mm	Q(min) kN	Qo kN	q kg/m
08B-3	BT 03.124-000	12.7	7.75	8.51	4.45	22.45	23.85	11.8	1.65	13.92	46.65	56	2.18
10B-3	BT 03.150-000	15.875	9.65	10.16	5.08	26.2	27.6	14.6	1.65	16.59	66.7	83.4	2.82
12B-3	BT 03.190-000	19.05	11.68	12.07	5.72	30.5	31.9	16	1.8	19.46	86.7	99.7	3.41
16B-3	BT 03.250-000	25.4	17.02	15.88	8.28	49.55	50.95	21	3.2/4	31.88	160	200	8.28
20B-3	BT 03.310-000	31.75	19.56	19.05	10.19	56.65	60.25	26	3.6/4.5	36.45	250	287.5	11.53
24B-3	BT 03.380-000	38.1	25.4	25.4	14.63	75.05	79.45	33	5/6	48.36	425	488.8	20.79
28B-3	BT 03.450-000	44.45	30.99	27.94	15.9	92.15	96.05	36.7	6.2/7.5	59.56	520	592.8	27.78
32B-3	BT 03.510-000	50.8	30.99	29.21	17.81	91.35	95.75	41.9	6.2/7	58.55	507	578.1	29.25
40B-3	BT 03.635-000	63.50	38.10	39.37	22.89	111.5	117.3	52.96	8/8.5	72.29	950	1092.5	48.10
48B-3	BT 03.760-000	76.20	45.72	48.26	29.24	140.6	150.0	63.88	9.5/11.8	91.21	1500	1710.0	75.00

Connecting Type: The series smaller than 16B(including 16B) is preferred for spring clip type;  
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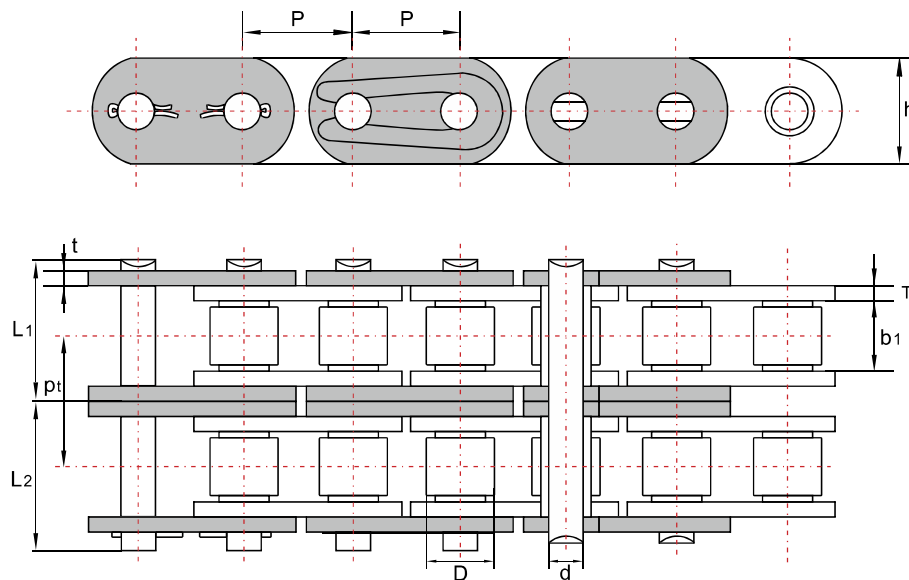
**Black Tiger Straight Plate Roller Chain ISO 606 (DIN 8187)**



Chain No.		Pitch	Width between inner plates	Roller diameter	Pin			Plate		Ultimate tensile strength	Average tensile strength	Weight per meter
DIN/ISO	Henkenjohann article no	P mm	b1(min) mm	D(max) mm	d mm	L1 mm	L2 mm	h mm	t/T mm	Q <sub>(min)</sub> kN	Q <sub>o</sub> kN	q kg/m
C08B-1	BT 01.124-000 GL	12.7	7.75	8.51	4.45	8.5	9.9	12.2	1.65	17.8	20.5	0.85
C10B-1	BT 01.150-000 GL	15.875	9.65	10.16	5.08	9.6	10.9	14.6	1.65	22.2	27.5	1.05
C12B-1	BT 01.190-000 GL	19.05	11.68	12.07	5.72	11	12.4	16	1.80	28.9	32.5	1.31
C16B-1	BT 01.250-000 GL	25.4	17.02	15.88	8.28	17.65	19.05	21	3.2/4.0	60	71	3.02
C16B-1		25.4	17.02	15.88	8.28	17.65	19.05	24	3.2/4.0	60	71	3.36
C20B-1	BT 01.310-000 GL	31.75	19.56	19.05	10.19	20.2	23.8	26	3.6/4.5	95	107	4.11
C24B-1	BT 01.380-000 GL	38.1	25.4	25.4	14.63	26.65	31.05	33	5/6.0	160	178	7.55
C28B-1	BT 01.450-000 GL	44.45	30.99	27.94	15.9	32.55	36.45	36.7	6.2/7.5	200	225	9.98
C32B-1	BT 01.510-000 GL	50.8	30.99	29.21	17.81	32.8	37.2	41.9	6.2/7.0	250	278	10.49

Connecting Type: The series smaller than 16B(including 16B) is preferred for spring clip type;  
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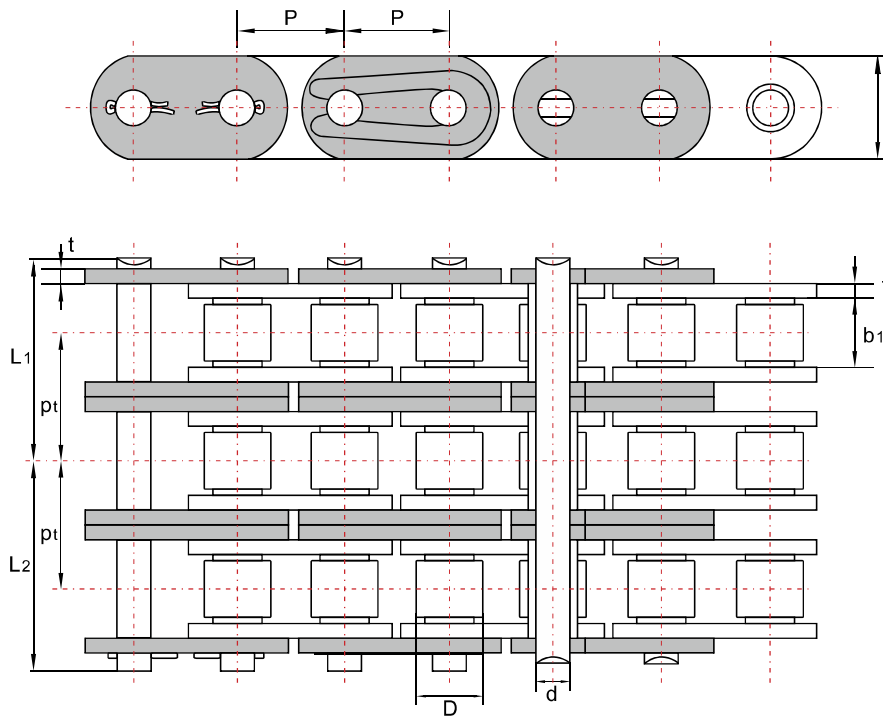
**Black Tiger Straight Plate Roller Chain ISO 606 (DIN 8187)**



Chain No.		Pitch	Width between inner plates	Roller diameter	Pin			Plate		Transverse pitch	Ultimate tensile strength	Average tensile strength	Weight per meter
DIN/ISO	Henkenjohann Article No.	P mm	b1(min) mm	D(max) mm	d mm	L1 mm	L2 mm	h mm	t/T mm	Pt mm	Q(min) kN	Qo kN	q kg/m
C08B-2	BT 02.124-000 GL	12.7	7.75	8.51	4.45	15.5	16.9	12.2	1.65	13.92	31.1	37	1.68
C10B-2	BT 02.150-000 GL	15.875	9.65	10.16	5.08	17.9	19.3	14.6	1.65	16.59	44.5	53.8	2.08
C12B-2	BT 02.190-000 GL	19.05	11.68	12.07	5.72	20.75	22.15	16	1.80	19.46	57.8	65.3	2.59
C16B-2	BT 02.250-000 GL	25.4	17.02	15.88	8.28	33.6	35	21	3.2/4.0	31.88	106	128.3	5.97
C16B-2		25.4	17.02	15.88	8.28	33.6	35	24	3.2/4.0	31.88	106	128.3	6.26
C20B-2	BT 02.310-000 GL	31.75	19.56	19.05	10.19	38.45	42.05	26	3.6/4.5	36.45	170	210	8.16
C24B-2	BT 02.380-000 GL	38.1	25.4	25.4	14.63	50.85	55.25	33	5/6.0	48.36	280	313.6	14.94
C28B-2	BT 02.450-000 GL	44.45	30.99	27.94	15.9	62.35	66.15	36.7	6.2/7.5	59.56	360	403.2	19.77
C32B-2	BT 02.510-000 GL	50.8	30.99	29.21	17.81	62.05	66.45	41.9	6.2/7.0	58.55	450	504	20.7

Connecting Type: The series smaller than 16B(including 16B) is preferred for spring clip type;  
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**Black Tiger Straight Plate Roller Chain ISO 606 (DIN 8187)**



Chain No.		Pitch	Width between inner plates	Roller diameter	Pin			Plate		Transverse pitch	Ultimate tensile strength	Average tensile strength	Weight per meter
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C08B-3	BT 03.124-000 GL	12.7	7.75	8.51	4.45	22.45	23.85	12.2	1.65	13.92	46.65	56	2.51
C10B-3	BT 03.150-000 GL	15.875	9.65	10.16	5.08	26.2	27.6	14.6	1.65	16.59	66.7	83.4	3.11
C12B-3	BT 03.190-000 GL	19.05	11.68	12.07	5.72	30.5	31.9	16	1.80	19.46	86.7	99.7	3.87
C16B-3	BT 03.250-000 GL	25.4	17.02	15.88	8.28	49.55	50.95	21	3.2/4.0	31.88	160	200	8.92
C16B-3		25.4	17.02	15.88	8.28	49.55	50.95	24	3.2/4.0	31.88	160	200	9.34
C20B-3	BT 03.310-000 GL	31.75	19.56	19.05	10.19	56.65	60.25	26	3.6/4.5	36.45	250	287.5	12.21
C24B-3	BT 03.380-000 GL	38.1	25.4	25.4	14.63	75.05	79.45	33	5/6.0	48.36	425	488.8	22.33
C28B-3	BT 03.450-000 GL	44.45	30.99	27.94	15.9	92.15	96.05	36.7	6.2/7.5	59.56	520	592.8	29.56
C32B-3	BT 03.510-000 GL	50.8	30.99	29.21	17.81	91.35	95.75	41.9	6.2/7.0	58.55	670	770.5	31.32

Connecting Type: The series smaller than 16B(including 16B) is preferred for spring clip type;  
The series larger than 20B(including 20B) is preferred for cottered type.